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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

(currently amended): A method for designing a resin product obtaining resin product

design parameters for use in an event of designing a resin product to be molded by injection

molding, the method comprising the steps of: determining obtaining a mold clamping force

required for conducting injection molding of a resin product having a specified shape using a

computer-aided optimization method; and determining obtaining the design of said resin product

based on the thus obtained mold clamping force.

2. (currently amended): The method for obtaining resin product design

parameters designing a resin product according to Claim 1, in which a process parameter for

determining an inflow of a resin material from a plurality of resin inflow conduits connecting

with a cavity is used as a variable parameter for determining said mold clamping force.

3. (currently amended): The method for obtaining resin product design

parameters designing a resin product according to Claim 2, wherein said process parameter is a

parameter which controls actions of inflow regulation valves located at said plurality of resin

inflow conduits.

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is a valve gate.

(currently amended): The method for <u>obtaining resin product design</u>

<u>parameters</u>

<u>designing a resin-product</u> according to Claim 3, wherein said inflow regulation valve

5. (currently amended): The method for <u>obtaining resin product design</u>
<u>parameters</u><u>designing a resin-product</u> according to Claim 4, wherein said valve gate is controlled by choosing either full opening or full closing.

6. (currently amended): The method for <u>obtaining resin product design</u> <u>parameters designing a resin product</u> according to Claim 4, wherein process parameters are optimized under the condition where at least one of the valve gates is opened at any spot of time during filling stage.

(currently amended): The method for <u>obtaining resin product design</u>
<u>parameters designing a resin product</u> according to Claim 1, wherein resin material for molding is thermoplastic resin.

(currently amended): The method for <u>obtaining resin product design</u>
<u>parameters</u><u>designing a resin product</u> according to Claim 1, wherein resin material for molding is polypropylene-base resin.

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(currently amended): The method for <u>obtaining resin product design</u>
<u>parameters</u><u>designing a resin-product</u> according to Claim 1, wherein resin material for molding is low flow resin.

10. (currently amended): The method for <u>obtaining resin product design</u>

<u>parameters</u><u>designing a resin product</u> according to Claim 1, wherein the material of the product is determined based on the mold clamping force determined by an optimization method.

11. (currently amended): The method for <u>obtaining resin product design</u> <u>parameters</u><u>designing a resin product</u> according to Claim 1, wherein the thickness distribution of the product is determined based on the mold clamping force determined by an optimization method.

12. (currently amended): The method for <u>obtaining resin product design</u> <u>parameters designing a resin product</u> according to Claim 1, wherein the thickness distribution of the product is determined by an optimization method under constraint conditions for the mold clamping force.

13. (original): A method for producing of a resin product, the method comprising a step of molding a resin product designed in the method for designing a resin product according to Claim 1 through injection molding under an optimized condition.

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14. (original): An injection molding device comprising:

a molding device main body which feeds a molten resin to a mold having a plurality of resin inflow conduits to a cavity therethrough;

a memory section which memorizes molding parameters determined by a computer-aided optimization method; and

a control section which conducts injection molding while controlling said molding device main body based on molding parameters corresponding to a predetermined mold clamping force.